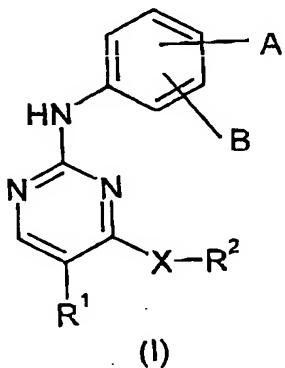


Claims:

1. Compounds of general formula (I)



5 in which

A or B in each case independently of one another represent cyano,
halogen, hydrogen, hydroxy, aryl or the group $-NO_2$, $-NH_2$, -
 NR^3R^4 , $-C_{1-6}\text{-alkyl}-NR^3R^4$, $-N(C_{1-6}\text{-hydroxyalkyl})_2$, $-NH-C(NH)-CH_3$, -
 $NH(CO)-R^5$, $-NHCOOR^6$, $-NR^7-(CO)-NR^8R^9$, $-NR^7-(CS)-NR^8R^9$, -
10 $COOR^5$, $-CO-NR^8R^9$, $-CONH-C_{1-6}\text{-alkyl}-COOH$, $-SO_2-CH_3$, 4-
bromo-1-methyl-1*H*-pyrazolo-3yl

15 or represent $C_{1-6}\text{-alkyl}$ optionally substituted in one or more
places, the same way or differently with halogen, hydroxy, cyano
or with the group $-COOR^5$, $-CONR^8R^9$, $-NH_2$, $-NH-SO_2-CH_3$, -
 NR^8R^9 , $-NH-(CO)-R^5$, $-NR^7-(CO)-NR^8R^9$, $-SO_2-NHR^3$, $-O-(CO)-R^5$
or $-O-(CO)-C_{1-6}\text{-alkyl}-R^5$,

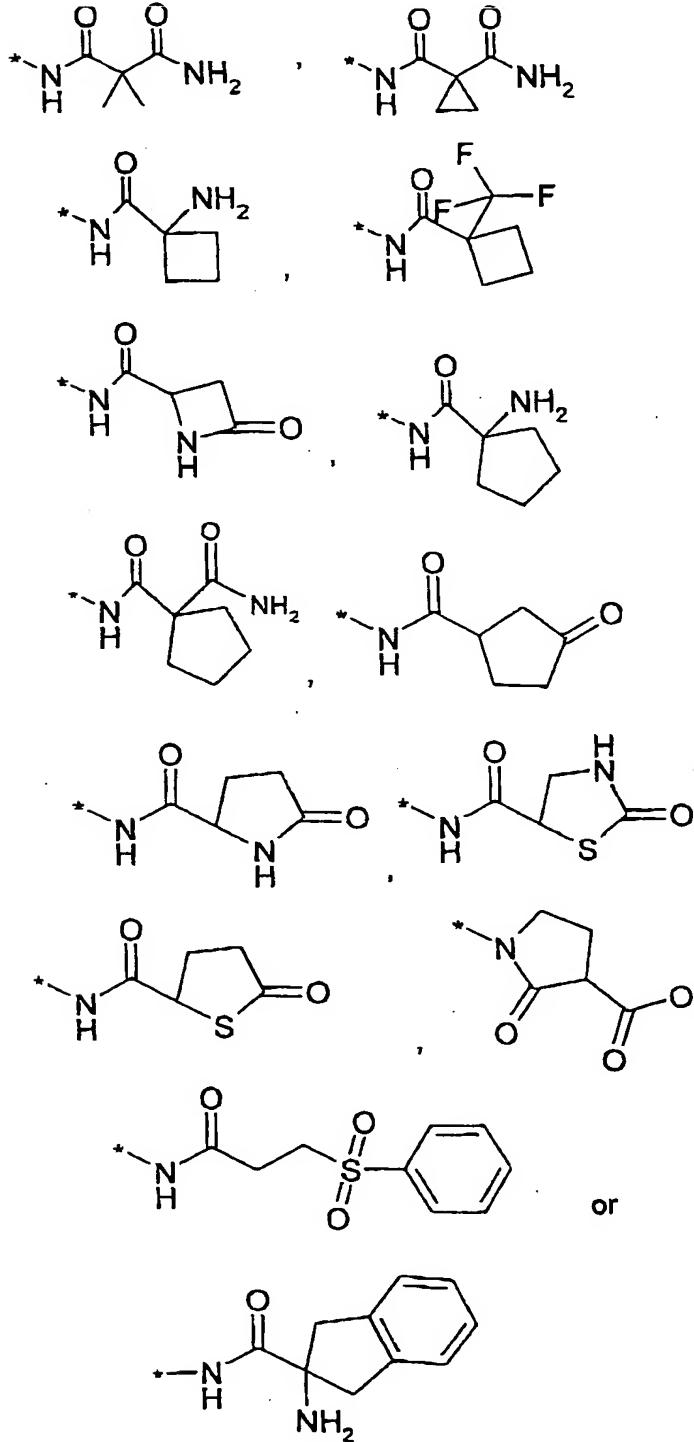
X represents an oxygen atom or the group $-NH-$ or $-NR^3R^4$,

R¹ represents hydrogen, halogen, hydroxymethyl, $C_{1-6}\text{-alkyl}$, cyano or
the group $-COOH$, $-COO\text{-iso-propyl}$, $-NO_2$, $-NH-(CO)-(CH_2)_2-$
20 $COOH$ or $-NH-(CO)-(CH_2)_2-COO-C_{1-6}\text{-alkyl}$, whereby the $C_{1-6}\text{-alkyl}$
can optionally be substituted in one or more places, in the same
way or differently with halogen,

R² represents hydrogen or the group $-NH-(CO)\text{-aryl}$ or $C_{1-6}\text{-alkyl}$
optionally substituted in one or more places, the same way or

25 differently with cyano, hydroxy, aryl, heteroaryl, $C_{3-6}\text{-}$
heterocycloalkylring, which can optionally be interrupted with one
or more nitrogen atoms, or substituted with the group $-NR^8R^9$, -

NH-(CO)-NR⁸R⁹, -NH-(CO)-S-C₁₋₆-alkyl, -NH-(CS)-NR⁸R⁹, -NH-(CO)O-CH₂-phenyl, -NH-(CO)H, -NH(CO)-R⁵, -NH(CO)-OR⁵, -(CO)-NH-NH₂, -(CO)-NH-CH₂-(CO)-NH₂, -(CO)-NH-C₁₋₆-alkyl, -COOH,



5

whereby the aryl or the heteroaryl can optionally be substituted in

one or more places, the same or differently with halogen, hydroxy, C₁₋₆-alkyl, -NH₂, -NH-(CO)-CH₂-NH₂, -NO₂, -(CO)-C(CH₂)-C₂H₅, -COOR⁶, -COOC(CH₃)₃, or represents C₃-alkinyl,

5 R³ or R⁴ in each case independently of one another represent hydrogen or C₁₋₆-alkyl optionally substituted in one or more places, the same way or differently with hydroxy, phenyl or hydroxyphenyl, or

10 R³ and R⁴ together form a C₃₋₆-heterocycloalkyrling containing at least one nitrogen atom and optionally can be interrupted by one or more oxygen and/or sulfur atoms and/or can be interrupted by one or more -(CO)- groups in the ring and/or optionally can contain one or more possible double bonds in the ring, whereby the C₃₋₆-heterocycloalkyrling can optionally be substituted with C₁₋₆-alkyl, C₁₋₆-alkyl-COOH or C₁₋₆-alkyl-NH₂,

15 R⁵ represents hydrogen, C₁₋₆-alkyl, C₁₋₆-alkoxy, C₂₋₆-alkenyl, C₃₋₆-cycloalkyrling, aryl, heteroaryl, the group -(CO)-NH₂ or C₃₋₆-heterocycloalkyrling that can optionally be interrupted with one or more nitrogen and/or oxygen and/or sulfur atoms and/or can be interrupted by one or more -(CO)- groups in the ring and/or optionally can contain one or more possible double bonds in the ring

20 and C₁₋₆-alkyl, C₂₋₆-alkenyl, C₃₋₆-cycloalkyrling, C₃₋₆-heterocycloalkyrling defined above, aryl or heteroaryl can optionally be substituted in one or more places, the same way or differently with halogen, hydroxy, C₁₋₆-alkyl, C₁₋₆-alkoxy, C₃₋₆-cycloalkyl, C₃₋₆-heterocycloalkyrling defined above, aryl, heteroaryl or with the group -NR⁸R⁹, -NO₂, -NR⁷-(CO)-R⁵, -NH(CO)-C₁₋₆-alkyl-NH-(CO)-C₁₋₆-alkyl, -NR⁷-(CO)-NR⁸R⁹, -CO-CH₃, -COOH, -CO-NR⁸R⁹, -SO₂-aryl, -SH, -S-C₁₋₆-alkyl, -SO₂-NR⁸R⁹, 25 whereby aryl itself can optionally be substituted in one or more places, the same way or differently with halogen, hydroxy, C₁₋₆-alkyl or C₁₋₆-alkoxy,

5 R⁶ represents C₁₋₆-alkyl, C₂₋₆-alkenyl or phenyl,
 whereby C₁₋₆-alkyl may optionally be substituted with C₃₋₆-
 heterocycloalkyrling that can optionally be interrupted with one or
 more nitrogen and/or oxygen and/or sulfur atoms and/or can be
 interrupted by one or more -(CO)- groups in the ring and/or
 optionally can contain one or more possible double bonds in the
 ring,

10 R⁷ represents hydrogen or C₁₋₆-alkyl,

15 R⁸ or R⁹ in each case independently of one another represent hydrogen,
 C₁₋₆-alkyl, C₂₋₆-alkenyl, C₃₋₆-cycloalkyl, aryl or heteroaryl or the
 group R¹⁰,

20 or
 whereby C₁₋₆-alkyl, C₂₋₆-alkenyl, C₃₋₆-cycloalkyl, aryl or heteroaryl
 can optionally be substituted in one or more places, the same way
 or differently with halogen, heteroaryl, hydroxy, C₁₋₆-alkoxy,
 hydroxy-C₁₋₆-alkoxy or the group -COOH, -NO₂, -NR⁸R⁹, -N(C₁₋₆-
 alkyl)₂ or with a C₃₋₆-heterocycloalkyrling can optionally be
 interrupted with one or more nitrogen and/or oxygen and/or sulfur
 atoms and/or can be interrupted by one or more -(CO)- groups in
 the ring and/or optionally can contain one or more possible double
 bonds in the ring,

25 or
 R⁸ and R⁹ together form a C₃₋₆-heterocycloalkyrling containing at least one
 nitrogen atom and optionally can be interrupted by one or more
 oxygen and/or sulfur atoms and/or can be interrupted by one or
 more -(CO)- groups in the ring and/or optionally can contain one
 or more possible double bonds in the ring, whereby the C₃₋₆-
 heterocycloalkyrling can optionally be substituted in one or more
 places, the same way or differently with hydroxy or the group -
 NR⁸R⁹, -NH(CO)-R⁵, hydroxy-C₁₋₆-alkyl or -COOH and

30 R¹⁰ represents -SO₂-aryl, -SO₂-heteroaryl or -SO₂-NH₂ or -SO₂-C₁₋₆-
 alkyl,
 whereby the aryl can be substituted with -C₁₋₆-alkyl,
 with the following provisos:

whereby when X represents $-NR^3R^4$ then R^2 does not represent a substituent,

whereby when A and B represent hydrogen, X represents $-NH-$ and R^2 represents C_{1-6} -alkyl,

5

then R^1 represents $-NH-(CO)-CH(NH_2)-(CH_2)_2-COOH$ or $-NH-(CO)-CH(NH_2)-(CH_2)_2-COOC_2H_5$,

whereby when A represents $-(CO)-OC_2H_5$ or hydroxy, B represents hydrogen, X represents oxygen, R^1 represents halogen, then R^2 represents C_3 -alkinyl,

10

whereby when A represents $-(CO)-OC_2H_5$ or hydroxy, B represents hydrogen, X represents $-NH-$, R^1 represents $-NO_2$, then R^2 represents C_3 -alkinyl,

15

whereby when A represents $-(CO)-OCH_3$, then X represents oxygen, R^1 represents halogen, R^2 represents C_3 -alkinyl and B represents $-NH_2$, $-NHC_2H_4OH$, $-N(C_2H_4OH)_2$, $-NH-(CO)-CH_2-O(CO)CH_3$,

20

whereby when A represents $-(CO)-OCH_3$, then X represents $-NH-$, R^1 represents halogen, R^2 represents $-C_2H_4$ -imidazolyl and B represents hydrogen $-NH_2$,

25

whereby when A represents $-NHSO_2-CH_3$,

then B represents hydrogen, X represents $-NH-$, R^1 represents halogen and R^2 represents $-C_2H_4$ -imidazolyl,

whereby when R^1 represents $-COO$ -iso-propyl,

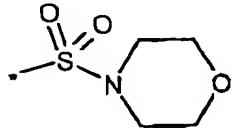
then X represents $-NH-$ and R^2 represents C_3 -alkinyl and A or B independently of one another represent the group $-NO_2$ or $-NH-(CO)-CF_3$,

whereby when R^1 represents halogen, X represents $-NH-$, B represents hydrogen and R^2 represents C_{1-6} -alkyl substituted with $-NH_2$, then A represents $-NH-(CO)-C_6$ -cycloalkyl-NH₂,

30

whereby when R^1 represents halogen, X represents $-NH-$, B represents $-S-CH_3$ and R^2 represents imidazolyl,

then A represents the group



as well as all related isotopes, diastereomers, enantiomers, solvates, polymorphs or pharmaceutically acceptable salts thereof.

5

2. Compounds of general formula (I), according to claim 1

in which

A or B in each case independently of one another represent cyano, halogen, hydrogen, hydroxy, tetrazolyl or the group -NH₂, -NR³R⁴, -C₁₋₆-alkyl-NR³R⁴, -NH-C(NH)-CH₃, -NH(CO)-R⁵, -NHCOOR⁶, -

10 NR⁷-(CO)-NR⁸R⁹, -C₁₋₆-alkyl-COOH, -COOH, -CONH₂, -CONH-C₁₋₆-alkyl-COOH,

15 or represent C₁₋₆-alkyl optionally substituted in one or more places, the same way or differently with halogen, hydroxy or with the group -COOH, -CONR⁸R⁹, -NH-SO₂-CH₃ or -NR⁸R⁹,

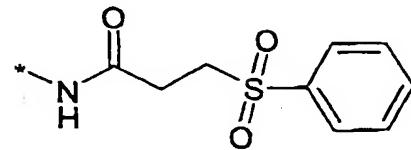
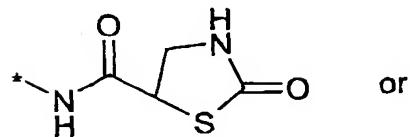
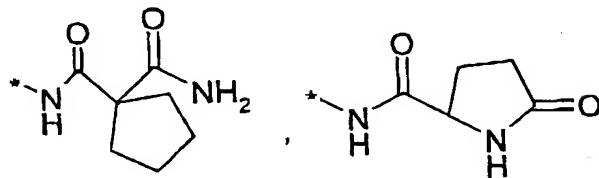
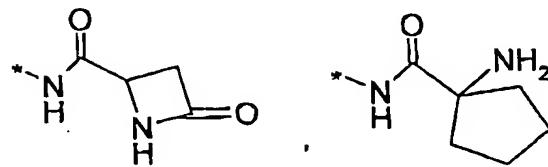
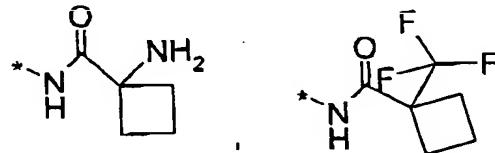
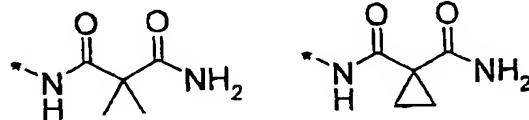
X represents the group -NH- or -NR³R⁴,

R¹ represents cyano, hydrogen, halogen or C₁₋₆-alkyl, whereby the C₁₋₆-alkyl can optionally be substituted in one or more places, in the same way or differently with halogen,

20 R² represents hydrogen or the group -NH-(CO)-aryl or -C₁₋₆-alkyl optionally substituted in one or more places, the same way or differently with cyano, hydroxy, aryl, heteroaryl, C₃₋₆-heterocycloalkylring which can be optionally be interrupted in one or more places with one or more nitrogen atoms, or substituted

25 with the group -NR⁸R⁹, -NH-(CO)-NR⁸R⁹, -NH-(CO)-S-C₁₋₆-alkyl, -NH-(CS)-NR⁸R⁹, -NH(CO)-R⁵, -NH(CO)-OR⁵, -(CO)-NH-NH₂, -(CO)-NH-CH₂-(CO)-NH₂, -(CO)-NH-C₁₋₆-alkyl, -COOH whereby the aryl or the heteroaryl can optionally be substituted in one or more places, the same way or differently with hydroxy, C₁₋₆-alkyl, -NH₂, -

NH-(CO)-CH₂-NH₂, -NO₂, -COOR⁶,



R³ or R⁴ in each case independently of one another represent hydrogen,
C₁₋₆-alkyl optionally substituted in one or more places, the same
way or differently with hydroxy, phenyl or hydroxyphenyl,
or

R³ and R⁴ together form a C₃₋₆-heterocycloalkyrling containing at least one
nitrogen atom and optionally can be interrupted by one or more
oxygen and/or sulfur atoms and/or can be interrupted by one or
more -(CO)- groups in the ring and/or optionally can contain one
or more possible double bonds in the ring, whereby the C₃₋₆-

heterocycloalkyrling can optionally be substituted with C₁₋₆-alkyl, C₁₋₆-alkyl-COOH or C₁₋₆-alkyl-NH₂,

10 R⁵ represents hydrogen, C₁₋₆-alkyl, C₁₋₆-alkoxy, C₂₋₆-alkenyl, C₃₋₆-cycloalkyrling, heteroaryl, the group -(CO)-NH₂ or C₃₋₆-heterocycloalkyrling that can optionally be interrupted with one or more nitrogen and/or oxygen and/or sulfur atoms and/or can be interrupted by one or more -(CO)- groups in the ring and/or optionally can contain one or more possible double bonds in the ring

15 and C₁₋₆-alkyl, C₂₋₆-alkenyl, C₃₋₆-heterocycloalkyrling define above, aryl or heteroaryl can optionally be substituted in one or more places, the same way or differently with halogen, hydroxy, C₁₋₆-alkyl, C₁₋₆-alkoxy, C₃₋₆-cycloalkyl, C₃₋₆-heterocycloalkyrling define above, aryl, heteroaryl or with the -NR⁸R⁹, -NO₂, -NR⁷-(CO)-R⁵, -NH(CO)-C₁₋₆-alkyl-NH-(CO)-C₁₋₆-alkyl, -NR⁷-(CO)-NR⁸R⁹, -CO-CH₃, -COOH, -CO-NR⁸R⁹, -SO₂-aryl, -SH, -S-C₁₋₆-alkyl, -SO₂-NR⁸R⁹, whereby aryl itself can optionally be substituted in one or more places, the same way or differently with halogen or hydroxy, C₁₋₆-alkyl or C₁₋₆-alkoxy,

20 R⁷ represents hydrogen or C₁₋₆-alkyl,

25 R⁸ or R⁹ in each case independently of one another represent hydrogen, C₁₋₆-alkyl, aryl or heteroaryl or the group R¹⁰, whereby C₁₋₆-alkyl, aryl or heteroaryl can optionally be substituted in one or more places, the same way or differently with halogen, heteroaryl, hydroxy, C₁₋₆-alkoxy, hydroxy-C₁₋₆-alkoxy or with the group -COOH, -NO₂, or a C₃₋₆-heterocycloalkyrling can optionally be interrupted with one or more nitrogen and/or oxygen and/or sulfur atoms and/or can be interrupted by one or more -(CO)- groups in the ring and/or optionally can contain one or more possible double bonds in the ring

30 or

R⁸ and R⁹ together form a C₃₋₆-heterocycloalkyrling containing at least one nitrogen atom and optionally can be interrupted by one or more

oxygen and/or sulfur atoms and/or can be interrupted by one or more -(CO)- groups in the ring and/or optionally can contain one or more possible double bonds in the ring, whereby the C₃₋₆-heterocycloalkylring can optionally be substituted in one or more places, the same way or differently with hydroxy, hydroxy-C₁₋₆-alkyl or the group -NR⁸R⁹, -NH(CO)-R⁵ or -COOH and

5 R¹⁰ represents -SO₂-NH₂, -SO₂-C₁₋₆-alkyl, -SO₂-aryl, or -SO₂-heteroaryl,

whereby the aryl can be substituted with -C₁₋₆-alkyl,

10 as well as all related isotopes, diastereomers, enantiomers, solvates, polymorphs or pharmaceutically acceptable salts thereof.

3. Compounds of general formula (I) according to claim 1 or 2

in which

15 A or B in each case independently of one another represent hydrogen, tetrazolyl or the group -N(CH₃)₂, -NH-(CO)-pyrrolidinyl, -NH-(CO)-pentyl, -NH-(CO)-hexyl, -NH-(CO)-hexyl-NH₂, -NH-(CO)-C₃H₇, -NH-(CO)-CH₂-phenyl, -NH-(CO)-CH₂-NH₂, -NH-(CO)-C₂H₄-NH₂, -NH-(CO)-CH(NH₂)-CH₃, -NH-(CO)-CH(NH₂)-hydroxyphenyl, -NH-(CO)-CH(NH₂)-CH₂-phenyl, -NH-(CO)-CH(NH₂)-CH₂-

20 hydroxyphenyl, -NH-(CO)-CH(NH-(CO)-CH₃)-CH₂-phenyl, -NH-(CO)-CH₂-NH-(CO)-CH₃, -NH-(CO)-N(C₂H₅)(C₂H₄-piperidinyl), -NH-(CO)-N(CH₃)(C₂H₄-piperidinyl), -NH-(CO)-CH₂-NH(CH₃), -CH₂-N(CH₃)₂, -NH-(CO)NH-CH₂-COOH, hydantoinyl, -CH₂-COOH

25 whereby the pyrrolidinyl can optionally be substituted with hydroxy or the group -NH₂, -N(CH₃)₂ or -NH-(CO)-CH₃, and whereby hydantoinyl can be substituted with -CH₃, -CH₂-COOH, or -(CO)-thiazolidinonyl,

X represents or the group -NH-,

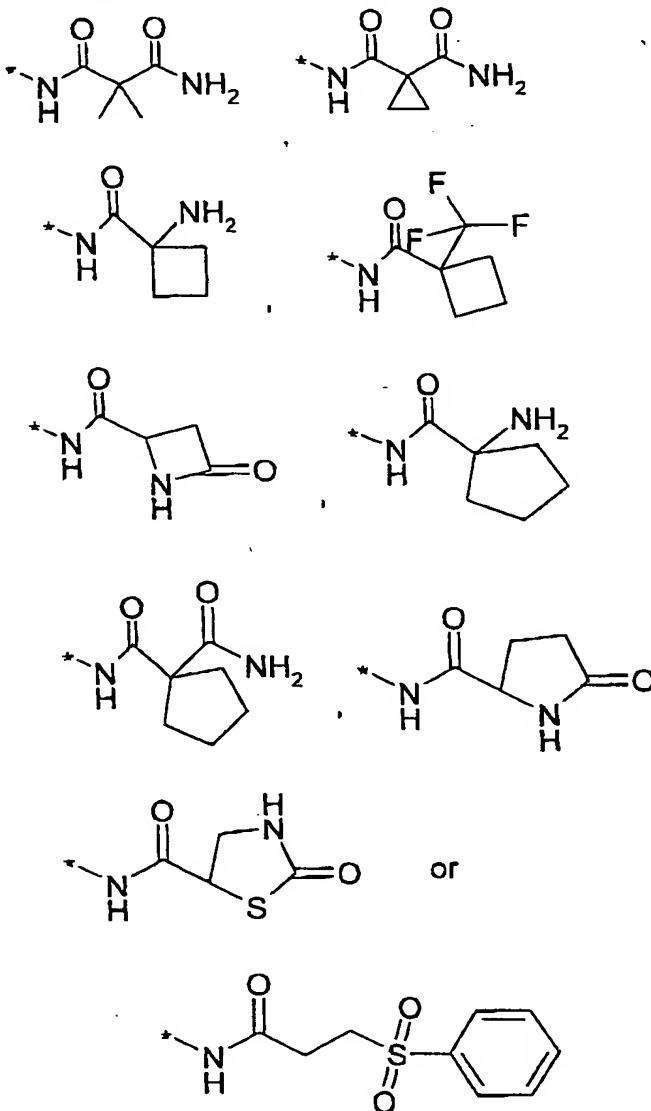
30 R¹ represents halogen and

R² represents hydrogen or the group -NH-(CO)-phenyl or -C₂H₄-, -C₃H₆- both can optionally be substituted in one or more places, the same way or differently with cyano, hydroxy, phenyl,

naphthyl, imidazolyl, thiazolyl, pyridyl, 2-oxazolinyl, piperidinyl, -NH₂, -NH-CH₂-thienyl, -NH-pyridinyl-NO₂, -NH-thiazolyl, -SO₂-thienyl, -SO₂-NH₂, -SO₂-CH₃, -SO₂-C₃H₇, pyrrolidinonyl substituted with -COOH, -NH-(CO)-NH-thienyl, -NH-(CO)-NH-phenyl, -NH-(CO)-NH-C₂H₅, -NH-(CO)-C(CH₃)₃, -NH-(CO)-S-C₂H₅, -NH-(CS)-NH-C₂H₅, -NH-(CO)-C₂H₅, -NH-(CO)-thienyl, -(CO)-NH-NH₂, -(CO)-NH-CH₂-(CO)-NH₂, -(CO)-NH-C₂H₅, -COOH whereby the phenyl or the imidazolyl, thiazolyl can optionally be substituted in one or more places, the same way or differently with hydroxy, -CH₃, -NH-(CO)-CH₂-NH₂, -COOC₂H₅, -COOC(CH₃)₃,

5

10



as well as all related isotopes, diastereomers, enantiomers, solvates, polymorphs or pharmaceutically acceptable salts thereof.

4. Compounds of general formula (I) according to any one of claims 1 to 3

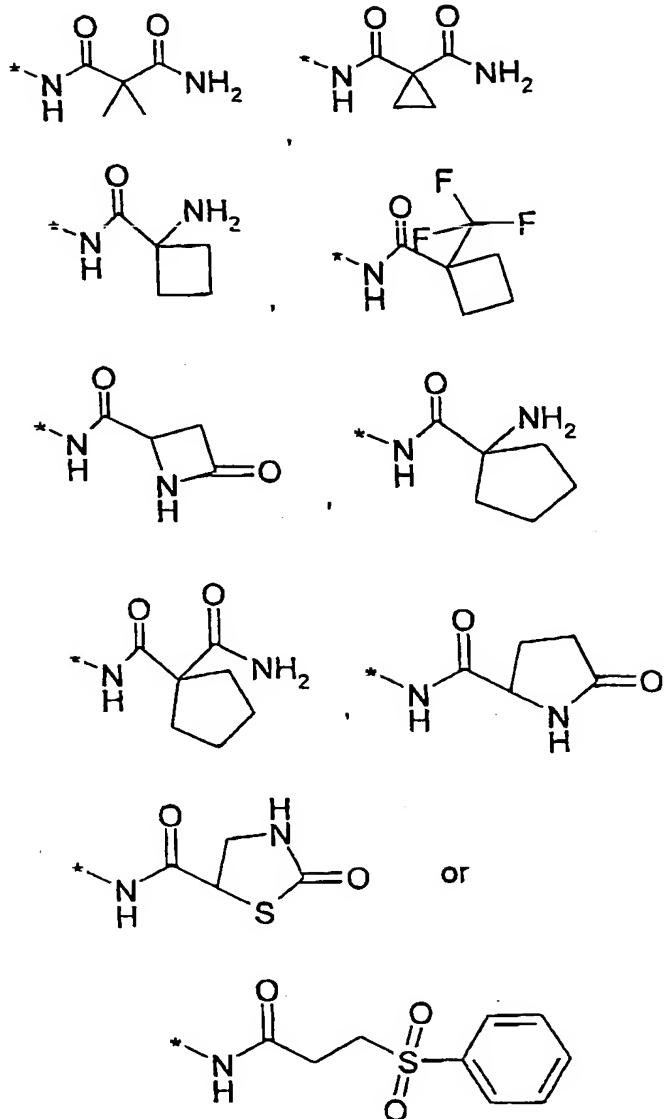
5 in which

A or B in each case independently of one another represent hydrogen or the group -NH-(CO)-pyrrolidinyl, -NH-(CO)-piperidinyl, -NH-(CO)-morpholinyl, -NH-(CO)-hexyl-NH₂, -NH-(CO)-CH(NH₂)-hydroxyphenyl, -NH-(CO)-CH(NH₂)-CH₂-hydroxyphenyl, hydantoin optionally substituted with -CH₃,

10 X represents or the group -NH-,

R¹ represents halogen and

15 R² represents hydrogen, -C₂H₄-imidazolyl or -C₃H₇ which can optionally be substituted in one or more places, the same way or differently with the group -NH-CH₂-thienyl, -NH-(CO)-C₂H₅, -NH-(CO)-C(CH₃)₃,



as well as all related isotopes, diastereomers, enantiomers, solvates, polymorphs or pharmaceutically acceptable salts thereof.

5

5. Compounds of general formula (I) according to claim 4,

N-[3-[[5-bromo-4-[[3-[[[1-(trifluoromethyl)cyclobutyl]carbonyl]amino]propyl]amino]-2-pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide,

10 N-[3-[[5-bromo-4-[[3-[[1-oxo-3-(phenylsulfonyl)propyl]amino]propyl]amino]-2-pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide,

N-[3-[[5-bromo-2-[[3-[(1-pyrrolidinyl)carbonyl]amino]phenyl]amino]-4-

pyrimidinyl]amino]propyl]-2,2-dimethyl-propanediamide,
N-[3-[[4-[[3-[(1-aminocyclopentyl)carbonyl]amino]propyl]amino]-5-bromo-2-
pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide,
N-[3-[[4-[[3-[(1-aminocyclobutyl)carbonyl]amino]propyl]amino]-5-iodo-2-
pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide,
5 N¹-[3-[[5-bromo-2-[[3-[(1-pyrrolidinyl)carbonyl]amino]phenyl]amino]-4-
pyrimidinyl]amino]propyl]-1,1-cyclopentanedicarboxamide,
(4R)-N-[3-[[5-bromo-2-[[3-(2,5-dioxo-1-imidazolidinyl)phenyl]amino]-4-
pyrimidinyl]amino]propyl]-2-oxo-4-thiazolidinecarboxamide,
10 (4R)-N-[3-[[5-bromo-2-[[3-(3-methyl-2,5-dioxo-1-
imidazolidinyl)phenyl]amino]-4-pyrimidinyl]amino]propyl]-2-oxo-4-
thiazolidinecarboxamide,
3-[3-[[5-bromo-4-[[2-(1H-imidazol-4-yl)ethyl]amino]-2-
pyrimidinyl]amino]phenyl]-2,4-imidazolidinedione,
15 3-[3-[[5-bromo-4-[[2-(1H-imidazol-4-yl)ethyl]amino]-2-
pyrimidinyl]amino]phenyl]-1-methyl-2,4-imidazolidinedione,
N'-[3-[[5-bromo-4-[[2-(1H-imidazol-4-yl)ethyl]amino]-2-
pyrimidinyl]amino]phenyl]-N-ethyl-N-[2-(1-piperidinyl)ethyl]-urea,
N-[3-[[5-bromo-4-[[3-[(2,2-dimethyl-1-oxopropyl)amino]propyl]amino]-2-
20 pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide,
N-[3-[[2-[[3-[(2S)-2-amino-3-(4-hydroxyphenyl)-1-
oxopropyl]amino]phenyl]amino]-5-bromo-4-pyrimidinyl]amino]propyl]-2,2-
dimethyl-propanediamide,
N-[3-[[2-[[3-[(1-aminocyclohexyl)carbonyl]amino]phenyl]amino]-5-bromo-4-
25 pyrimidinyl]amino]propyl]-2,2-dimethyl-propanediamide,
N-[3-[[2-[[3-[(2S)-2-amino-2-phenylacetyl]amino]phenyl]amino]-5-bromo-4-
pyrimidinyl]amino]propyl]-2,2-dimethyl-propanediamide,
N-[3-[[2-[[3-[(2R)-2-amino-1-oxo-3-phenylpropyl]amino]phenyl]amino]-5-
bromo-4-pyrimidinyl]amino]propyl]-5-oxo-2-pyrrolidinecarboxamide,
30 N-[3-[[2-[[3-[(2R)-2-amino-1-oxo-3-phenylpropyl]amino]phenyl]amino]-5-
bromo-4-pyrimidinyl]amino]propyl]-2,2-dimethyl-propanediamide,
N¹-[3-[[5-bromo-2-[[3-[(2S)-2-pyrrolidinylcarbonyl]amino]phenyl]amino]-4-
pyrimidinyl]amino]propyl]-1,1-cyclopropanedicarboxamide,

N-[3-[[5-bromo-2-[[3-(2,5-dioxo-1-imidazolidinyl)phenyl]amino]-4-pyrimidinyl]amino]propyl]-2,2-dimethyl-propanediamide,
N-(3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)phenyl)-4-morpholinecarboxamide,
5 N-(3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)phenyl)-1-pyrrolidinecarboxamide,
N-(3-((5-bromo-4-((3-((2-thienylcarbonyl)amino)propyl)amino)-2-pyrimidinyl)amino)phenyl)-1-pyrrolidinecarboxamide,
10 N1-(3-((5-bromo-2-((3-((1-pyrrolidinylcarbonyl)amino)phenyl)amino)-4-pyrimidinyl)amino)propyl)-1,1-cyclopropaneddicarboxamide,
N-(3-((5-bromo-4-((3-((1-oxopropyl)amino)propyl)amino)-2-pyrimidinyl)amino)phenyl)-1-pyrrolidinecarboxamide,
N-(3-((5-iodo-4-((3-((2-thienylcarbonyl)amino)propyl)amino)-2-pyrimidinyl)amino)phenyl)-1-pyrrolidinecarboxamide,
15 N-[3-[[5-bromo-4-[[3-[[[(2S)-5-oxo-2-pyrrolidinyl]carbonyl]amino]propyl]amino]-2-pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide,
N-[3-[[5-bromo-4-[[3-[[[(2S)-4-oxo-2-azetidinyl]carbonyl]amino]propyl]amino]-2-pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide,
20 (4R)-N-[3-[[5-bromo-2-[[3-[(1-pyrrolidinylcarbonyl)amino]phenyl]amino]-4-pyrimidinyl]amino]propyl]-2-oxo-4-thiazolidinecarboxamide or
N-[3-[[4-[[3-[(1-aminocyclobutyl)carbonyl]amino]propyl]amino]-5-bromo-2-pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide.

25 6. Compounds of general formula (I) according to claim 1,

in which

A or B in each case independently of one another represent hydrogen or the group -NO₂, -NH₂, -NR³R⁴, -N(C₁₋₆-hydroxyalkyl)₂, -NH(CO)-R⁵, -NHCOOR⁶, -NR⁷-(CO)-NR⁸R⁹, -NR⁷-(CS)-NR⁸R⁹, -COOR⁵, -CO-NR⁸R⁹, -SO₂-CH₃, 4-bromo-1-methyl-1H-pyrazolo-3yl or C₁₋₆-alkyl optionally substituted in one or more places, the same way or differently with cyano, halogen, hydroxy or the group -NH₂,

$-NH-(CO)-R^5$, $-SO_2-NHR^3$, $-COOR^5$, $-CONR^8R^9$, $-O-(CO)-R^5$, $-O-(CO)-C_{1-6}\text{-alkyl}-R^5$,

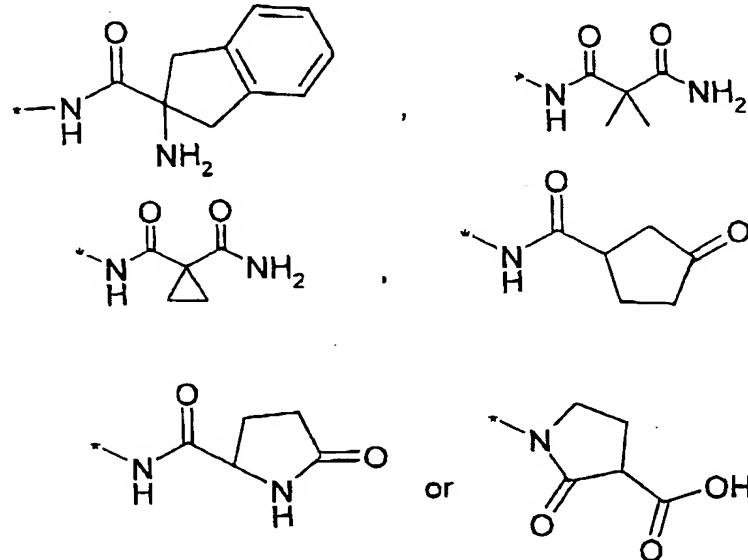
X represents an oxygen atom or the group $-NH-$.

R¹ represents hydrogen, halogen, hydroxymethyl or the group $-COOH$, $-COO\text{-iso-propyl}$, $-NO_2$, $-NH-(CO)-(CH_2)_2-COOH$ or $-NH-(CO)-(CH_2)_2-COO-C_{1-6}\text{-alkyl}$,

5

R² represents C₁₋₆-alkyl optionally substituted in one or more places, the same way or differently with hydroxy, imidazolyl or the group $-NH_2$, $-NH-(CO)O-CH_2\text{-phenyl}$, $-NH-(CO)H$, $-NH-(CO)\text{-phenyl}$, $-NH-(CO)-CH_2-O\text{-phenyl}$, $-NH-(CO)-CH_2\text{-phenyl}$, $-NH-(CO)-CH(NH_2)CH_2\text{-phenyl}$, $-NH-(CO)-CH_2-CH(CH_3)\text{-phenyl}$, $-NH-(CO)-CH(NH_2)-(CH_2)_2-COOH$,

10



, whereby the phenyl can optionally be substituted in one or more places, the same or differently with halogen, C₁₋₆-alkyl or $-(CO)-C(CH_2)-C_2H_5$,

or represents C₃-alkinyl,

R³ or R⁴ in each case independently of one another represent hydrogen or C₁₋₆-alkyl optionally substituted in one or more places, the same way or differently with hydroxy, phenyl or hydroxyphenyl,

or

R³ and R⁴ together form a C₃₋₆-heterocycloalkyrling containing at least one nitrogen atom and optionally can be interrupted by one or more

20

oxygen and/or sulfur atoms and/or can be interrupted by one or more -(CO)- groups in the ring and/or optionally can contain one or more possible double bonds in the ring, whereby the C₃₋₆-heterocycloalkyrling can optionally be substituted with C₁₋₆-alkyl, C₁₋₆-alkyl-COOH or C₁₋₆-alkyl-NH₂,

5 R⁵ represents C₁₋₆-alkyl, C₂₋₆-alkenyl, C₃₋₆-cycloalkyl or phenyl each can optionally be substituted in one or more places, the same way or differently with halogen, hydroxy, phenyl or with the group -NH₂, -NH(CO)-O-C₁₋₆-alkyl, whereby phenyl itself can optionally be substituted in one or more places, the same way or differently with 10 halogen, hydroxy or C₁₋₆-alkyl,

R⁶ represents C₁₋₆-alkyl, C₂₋₆-alkenyl or phenyl,

R⁷ represents hydrogen or C₁₋₆-alkyl and

15 R⁸ or R⁹ in each case independently of one another represent hydrogen, C₁₋₆-alkyl, C₂₋₆-alkenyl, C₃₋₆-cycloalkyl, aryl or phenyl, whereby aryl or phenyl can optionally be substituted in one or more places, the same way or differently with hydroxy or the group -NO₂ or -N(C₁₋₆-alkyl)₂

or

20 R⁸ and R⁹ together form a C₃₋₆-heterocycloalkyrling containing at least one nitrogen atom and optionally can be interrupted by one or more oxygen and/or sulfur atoms and/or can be interrupted by one or more -(CO)- groups in the ring and/or optionally can contain one or more possible double bonds in the ring, whereby the C₃₋₆-heterocycloalkyrling can optionally be substituted with the group -NH₂,

25

as well as all related isotopes, diastereomers, enantiomers, solvates, polymorphs or pharmaceutically acceptable salts thereof.

30 7. Compounds of general formula (I) according to claim 1 or 6

in which

A or B in each case independently of one another represent hydrogen or the group -NH-C₂H₄-OH, -NH-CH₂-hydroxyphenyl, -NH-(CO)-

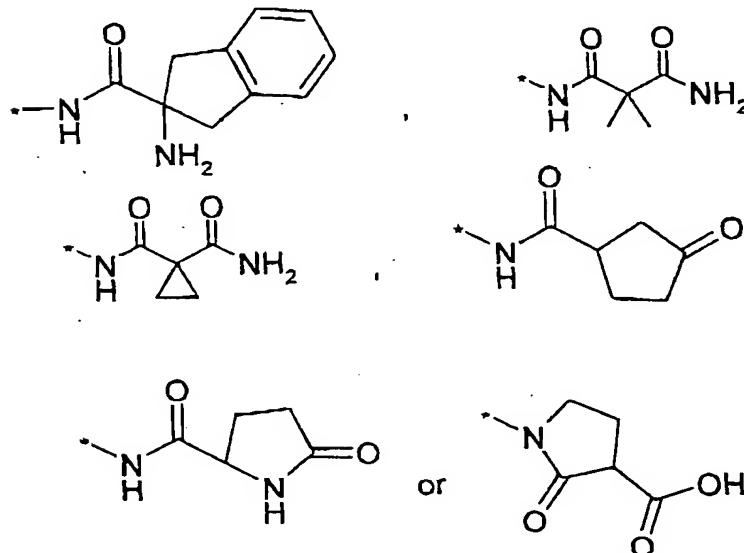
pyrrolidinyl, -NH-(CO)-CH(NH₂)-CH₂-phenyl, -NH-(CO)-pentyl-NH₂,
 -NH-(CO)-hexyl-NH₂, -NH-(CO)-CH₂-NH₂, -NH-(CO)-CH(NH₂)-
 hydroxyphenyl, -NH-(CO)-CH₂-hydroxyphenyl, -NH-(CO)-CH₂-
 methylphenyl, -NH-(CO)-C₂H₄-dihydroxyphenyl, -NH-(CO)-
 CH(OH)-phenyl, -NH-(CO)-CH(NH₂)-CH₂(OH), -NH-(CO)-
 C(CH₃)₂NH₂, -NH-(CO)-NH(C₂H₅), -CH₂OH, -(CO)-NH-cyclopropyl,
 -(CO)-NH-CH(CH₃)₂,

5 whereby the pyrrolidinyl can optionally be substituted with hydroxy
 or the group -NH₂,

10 X represents an oxygen atom or the group -NH-,

R¹ represents halogen or hydroxymethyl and

R² represents -C₂H₅ optionally substituted in one or more places, the
 same way or differently with hydroxy, imidazolyl
 or represents -C₃H₇ or -C₄H₈ optionally substituted in one or more
 15 places, the same way or differently with the group -NH₂, -NH-
 (CO)-CH(NH₂)-C₂H₄-COOH, -NH-(CO)-phenyl, -NH-(CO)-CH₂-
 phenyl, -NH-(CO)-CH₂-CH(CH₃)-phenyl, -NH-(CO)-CH₂-O-phenyl,
 -NH-(CO)O-CH₂-phenyl, -NH-(CO)-CH(NH₂)CH₂-phenyl,



20

whereby the phenyl can optionally be substituted in one or more
 places, the same or differently with halogen, -CH₃ or -(CO)-

C(CH₂)(C₂H₅).

or represents C₃-alkinyl,

as well as all related isotopes, diastereomers, enantiomers, solvates, polymorphs or pharmaceutically acceptable salts thereof.

5

8. Compounds of general formula (I) according to claim 7,
N-[3-[[2-[[3-[(2R)-2-amino-1-oxo-3-phenylpropyl]amino]phenyl]amino]-5-
bromo-4-pyrimidinyl]amino]propyl]-2,2-dimethyl-propanediamide,
10 1-[3-[[2-[[3-[(2R)-2-amino-1-oxo-3-phenylpropyl]amino]phenyl]amino]-5-
bromo-4-pyrimidinyl]amino]propyl]-2-oxo-3-pyrrolidinecarboxylic acid,
N-[3-[[5-bromo-4-[(3-[(5-oxo-2-pyrrolidinyl)carbonyl]amino]propyl]amino]-2-
pyrimidinyl]amino]phenyl]-1-pyrrolidinecarboxamide,
Pyrrolidine-1-carboxylic acid [3-(5-bromo-4-{3-[2-(2,4-dichloro-phenyl)-
acetylamino]-propylamino}-pyrimidin-2-ylamino)-phenyl]-amide,
15 Pyrrolidine-1-carboxylic acid [3-(5-bromo-4-{3-[2-(4-bromo-phenyl)-
acetylamino]-propylamino}-pyrimidin-2-ylamino)-phenyl]-amide,
Pyrrolidine-1-carboxylic acid (3-{5-bromo-4-[3-(2-p-tolyl-acetylamino)-
propylamino]-pyrimidin-2-ylamino}-phenyl)-amide,
Pyrrolidine-1-carboxylic acid [3-(5-bromo-4-{3-[2-(2,4-difluoro-phenyl)-
20 acetylamino]-propylamino}-pyrimidin-2-ylamino)-phenyl]-amide,
Pyrrolidine-1-carboxylic acid {3-[5-bromo-4-(3-{2-[2,3-dichloro-4-(2-
methylene-butryl)-phenoxy}-acetylamino)-propylamino)-pyrimidin-2-
ylamino]-phenyl}-amide,
Pyrrolidine-1-carboxylic acid [3-(5-bromo-4-{3-[3-(2,3-dichloro-phenyl)-
butyrylamino]-propylamino}-pyrimidin-2-ylamino)-phenyl]-amide,
25 Pyrrolidine-1-carboxylic acid (3-{5-bromo-4-[3-(3-bromo-benzoylamino)-
propylamino]-pyrimidin-2-ylamino}-phenyl)-amide,
N-(3-((4-((4-aminobutyl)amino)-5-bromo-2-pyrimidinyl)amino)phenyl)-1-
pyrrolidinecarboxamide,
30 N-[3-[[2-[[3-[(2R)-2-amino-1-oxo-3-phenylpropyl]amino]phenyl]amino]-5-
bromo-4-pyrimidinyl]amino]propyl]-2,2-dimethyl-propanediamide,
N-[3-[(2S)-2-Amino-1-oxo-3-phenylpropyl]amino]-5-[(5-bromo-4-(prop-2-
ynyoxy)pyrimidin-2-yl]amino]phenyl]pyrrolidine-1-carboxamide,

N-[3-[(2R)-2-Amino-1-oxo-3-phenylpropyl]amino]-5-[[5-bromo-4-(prop-2-
ynyoxy)pyrimidin-2-yl]amino]phenyl]pyrrolidine-1-carboxamide,
(aR)-a-Amino-N-[3-[[5-bromo-4-(prop-2-ynyoxy)pyrimidin-2-yl]amino]-5-
(hydroxymethyl)phenyl]benzenepropanamide,

5 2-[3-(5-Bromo-4-prop-2-ynyoxy-pyrimidine-2-ylamino)-5-hydroxymethyl-
phenylamino]-ethanol,
(2R)-Amino-N-[3-hydroxymethyl-5-(4-prop-2-ynyoxy-pyrimidine-2-ylamino)-
phenyl]-3-phenyl-propionamide.

10 3-((2R)-Amino-3-phenyl-propionylamino)-5-(5-bromo-4-prop-2-ynyoxy-
pyrimidine-2-ylamino)- N-cyclopropyl-benzamide,

3-((2R)-Amino-3-phenyl-propionylamino)-5-(5-bromo-4-prop-2-ynyoxy-
pyrimidin-2-ylamino)- N-isopropyl-benzamide.

Phenylmethyl [3-[[2-[[3-[(ethylamino)carbonyl]amino]phenyl]amino]-5-
(hydroxymethyl)pyrimidine-4-yl]amino]propyl]carbamate,

15 Pyrrolidine-1-carboxylic acid (3-{4-[3-((2R)-amino-3-phenyl-propionylamino)-
propylamino]-5-bromo-pyrimidine-2-ylamino}-phenyl)-amide,

Pyrrolidine-1-carboxylic acid (3-{4-[3-((2S)-amino-3-phenyl-propionylamino)-
propylamino]-5-bromo-pyrimidine-2-ylamino}-phenyl)-amide,

2-[3-(5-Bromo-4-prop-2-ynyoxy-pyrimidine-2-ylamino)-phenylamino]-ethanol,

20 1-Amino-cyclopentancarbonylic acid[3-(5-bromo-4-prop-2-ynyoxy-
pyrimidine-2-ylamino)-phenyl]-amide,

1-Amino-cyclohexancarbonylic acid-[3-(5-bromo-4-prop-2-ynyoxy-
pyrimidine-2-ylamino)-phenyl]-amide,

(2S)-Amino-N-[3-(5-bromo-4-prop-2-ynyoxy-pyrimidine-2-ylamino)-phenyl]-3-
phenyl-propionamide,

25 (2R)-Amino-N-[3-(5-bromo-4-prop-2-ynyoxy-pyrimidine-2-ylamino)-phenyl]-3-
phenyl-propionamide,

2-[[3-(5-Bromo-4-prop-2-ynyoxy-pyrimidine-2-ylamino)-phenylamino]-
methyl]-phenol,

30 (2R)-Amino-N-[3-(5-bromo-4-prop-2-ynyoxy-pyrimidine-2-ylamino)-phenyl]-3-
(4-hydroxy-phenyl)-propionamide,

N-[3-(5-Bromo-4-prop-2-ynyoxy-pyrimidine-2-ylamino)-phenyl]-3-(3,4-
dihydroxy-phenyl)-propionamide,

N-[3-(5-Bromo-4-prop-2-ynyl-oxo-pyrimidine-2-ylamino)-phenyl]-2-hydroxy-(2S)-phenyl-acetamide,
N-[3-(5-Bromo-4-prop-2-ynyl-oxo-pyrimidine-2-ylamino)-phenyl]-2-hydroxy-(2R)-phenyl-acetamide,
5 (2S)-Amino-N-[3-(5-bromo-4-prop-2-ynyl-oxo-pyrimidine-2-ylamino)-phenyl]-3-hydroxy-propionamide,
(2R)-Amino-N-[3-(5-bromo-4-prop-2-ynyl-oxo-pyrimidine-2-ylamino)-phenyl]-3-hydroxy-propionamide,
2-Amino-N-[3-(5-bromo-4-prop-2-ynyl-oxo-pyrimidine-2-ylamino)-phenyl]-2-methyl-propionamide,
10 (2S)-Amino-N-[3-(5-bromo-4-prop-2-ynyl-oxo-pyrimidine-2-ylamino)-phenyl]-3-(4-hydroxy-phenyl)-propionamide,
(2S)-Amino-N-[3-(5-bromo-4-prop-2-ynyl-oxo-pyrimidine-2-ylamino)-phenyl]-3-p-tolyl-propionamide or
15 (2R)-Amino-N-[3-(5-bromo-4-prop-2-ynyl-oxo-pyrimidine-2-ylamino)-phenyl]-3-p-tolyl-propionamide.

9. Compounds of general formula (I) according to claim 1

in which

20 A or B in each case independently of one another represent halogen, hydrogen or the group -SO₂-CH₃, -NO₂, -NH₂, -CF₃, -CH₂-NH-(CO)-NH₂, -CH₂-pyrrolidinyl, -NH-(CO)-CH₃, -NH-(CO)-hexyl-NH₂, -NH-(CO)-phenyl, -NH-(CO)-pyrrolidinyl, --NH-(CO)-CH(NH₂)-CH₂-phenyl, NH-(CO)-OCH₃, -NH-(CO)-OCH(CH₃)₂, -NH-(CO)-OC₂H₄-morpholino, -NH-(CO)-NH-cyclopropyl, -NH-(CO)-morpholino, -NH-(CO)-NH-C₂H₄-morpholino, -NH-(CO)-NH-hydroxycycloalkyl, hydantoinyl,

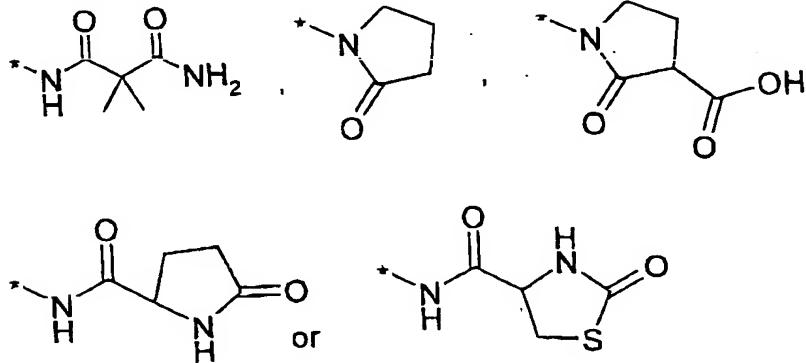
whereby the pyrrolidinyl can optionally be substituted with hydroxy or the group -NH₂ and

30 whereby the hydantoinyl can optionally be substituted with the group -CH₃ or -(CO)-thiazolidinonyl,

X represents the group -NH-,

R¹ represents halogen and

R^2 represents $-\text{CH}_2\text{-dihydroxyphenyl}$, $-\text{C}_2\text{H}_4\text{-imidazolyl}$, or $-\text{C}_3\text{H}_7$
optionally substituted in one or more places, the same way or
differently with



5 as well as all related isotopes, diastereomers, enantiomers, solvates,
polymorphs or pharmaceutically acceptable salts thereof.

10. Compounds of general formula (I) according to claim 7,
 4-((4-((2-(1H-imidazol-4-yl)ethyl)amino)-5-iodo-2-pyrimidinyl)amino)-
 benzenesulfonamide,

15 N-((3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-
 pyrimidinyl)amino)phenyl)methyl)-urea,
 1-((3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-
 pyrimidinyl)amino)phenyl)methyl)-3-pyrrolidinol,

20 (3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-
 pyrimidinyl)amino)phenyl)-carbamic acid methyl ester,
 N2-(3-aminophenyl)-5-bromo-N4-(2-(1H-imidazol-4-yl)ethyl)-2,4-
 pyrimidinediamine,

25 N-(3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-
 pyrimidinyl)amino)phenyl)-N'-cyclopropyl-urea,
 N-(3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-
 pyrimidinyl)amino)phenyl)-4-morpholinecarboxamide,
 (3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-
 pyrimidinyl)amino)phenyl)-carbamic acid 1-methylethyl ester,

30 N-(3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-
 pyrimidinyl)amino)phenyl)-methanesulfonamide,
 N2-(3-amino-5-(trifluoromethyl)phenyl)-5-bromo-N4-(2-(1H-imidazol-4-

yl)ethyl)-2,4-pyrimidinediamine,
N-(3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)phenyl)-N'-(2-(4-morpholinyl)ethyl)-urea,
N2-(3-amino-5-chlorophenyl)-5-bromo-N4-(2-(1H-imidazol-4-yl)ethyl)-2,4-pyrimidinediamine,
5 (3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)phenyl)-carbamic acid 2-(4-morpholinyl)ethyl ester,
N-(3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)phenyl)-N'-(4-hydroxycyclohexyl)-urea,
10 N-(3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)phenyl)-acetamide,
N-(3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)phenyl)-benzamide,
15 (4R)-N-[3-[[5-bromo-2-[[3-[(1-pyrrolidinyl)carbonyl]amino]phenyl]amino]-4-pyrimidinyl]amino]propyl]-2-oxo-4-thiazolidinecarboxamide,
3-[3-[[5-bromo-4-[[2-(1H-imidazol-4-yl)ethyl]amino]-2-pyrimidinyl]amino]phenyl]-2,4-imidazolidinedione,
20 3-[3-[[5-bromo-4-[[2-(1H-imidazol-4-yl)ethyl]amino]-2-pyrimidinyl]amino]phenyl]-1-methyl-2,4-imidazolidinedione,
1-[3-[[2-[[3-[(2R)-2-amino-1-oxo-3-phenylpropyl]amino]phenyl]amino]-5-bromo-4-pyrimidinyl]amino]propyl]-2-oxo-3-pyrrolidinecarboxylic acid,
25 1-[3-[[2-[[3-[(1-aminocyclohexyl)carbonyl]amino]phenyl]amino]-5-bromo-4-pyrimidinyl]amino]propyl]-2-oxo-3-pyrrolidinecarboxylic acid,
N-[3-[[2-[[3-[(2R)-2-amino-1-oxo-3-phenylpropyl]amino]phenyl]amino]-5-bromo-4-pyrimidinyl]amino]propyl]-5-oxo-2-pyrrolidinecarboxamide,
30 N-[3-[[2-[[3-[(2R)-2-amino-1-oxo-3-phenylpropyl]amino]phenyl]amino]-5-chloro-4-pyrimidinyl]amino]propyl]-2,2-dimethyl-propanediamide,
3-[3-[[5-bromo-4-[(3,4-dihydroxyphenyl)methyl]amino]-2-pyrimidinyl]amino]phenyl]-2,4-imidazolidinedione,
3-[3-[[5-bromo-4-[(3,4-dihydroxyphenyl)methyl]amino]-2-pyrimidinyl]amino]phenyl]-1-methyl-2,4-imidazolidinedione,
35 (4R)-N-[3-[[5-bromo-2-[[3-(2,5-dioxo-1-imidazolidinyl)phenyl]amino]-4-pyrimidinyl]amino]propyl]-2-oxo-4-thiazolidinecarboxamide,

N-[3-[[5-bromo-2-[(3-(2,5-dioxo-1-imidazolidinyl)phenyl]amino]-4-pyrimidinyl]amino]propyl]-5-oxo-2-pyrrolidinecarboxamide,
N-[3-[[5-bromo-2-[(3-(2,5-dioxo-1-imidazolidinyl)phenyl]amino]-4-pyrimidinyl]amino]propyl]-2,2-dimethyl-propanediamide,
5 3-[3-[[5-bromo-4-[(3-(2-oxo-1-pyrrolidinyl)propyl]amino]-2-pyrimidinyl]amino]phenyl]-2,4-imidazolidinedione,
(4R)-N-[3-[[5-bromo-2-[(3-(3-methyl-2,5-dioxo-1-imidazolidinyl)phenyl]amino]-4-pyrimidinyl]amino]propyl]-2-oxo-4-thiazolidinecarboxamide or
4-(4R)-N-[3-[[5-bromo-2-[(3-[2,5-dioxo-3-[(4R)-2-oxo-4-thiazolidinyl]carbonyl]-1-imidazolidinyl)phenyl]amino]-4-pyrimidinyl]amino]propyl]-2-oxo-4-thiazolidinecarboxamide.
10

11. A compound of following structure

N-(3-((4-((3-(aminomethyl)phenyl)amino)-5-bromo-2-pyrimidinyl)amino)phenyl)-1-pyrrolidine-carboxamide,
15 4-[[5-bromo-4-[(2-(1H-imidazol-5-yl)ethyl)amino]-2-pyrimidinyl]amino]-1-4-[[5-bromo-4-[(2-(1H-imidazol-5-yl)ethyl)amino]-2-pyrimidinyl]amino]-1H-naphthaleneacetic acid,
20 5-[[5-bromo-4-[(2-(1H-imidazol-5-yl)ethyl)amino]-2-pyrimidinyl]amino]-1H-indole-2-carboxylic acid, ethyl ester,
5-bromo-N4-[2-(1H-imidazol-5-yl)ethyl]-N2-(2-methyl-6-quinolinyl)-2,4-pyrimidinediamine,
25 4-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-benzamide,
4-((4-((2-(1H-imidazol-4-yl)ethyl)amino)-5-iodo-2-pyrimidinyl)amino)-benzenesulfonamide,
30 3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-benzamide,
3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-benzenesulfonamide,
5-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-1,3-dihydro-2H-benzimidazol-2-one,
3-((5-bromo-4-((2-(1H-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-benzoic acid methyl ester,

3-amino-5-((5-bromo-4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)- benzoic acid methyl ester,
N-((3-((5-bromo-4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)phenyl)methyl)-methanesulfonamide,
4-((5-bromo-4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-
benzoic acid methyl ester,
3-((5-bromo-4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-
phenol,
5-((5-bromo-4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-1*H*-
isoindole-1,3(2*H*)-dione,
5-bromo-N⁴-(2-(1*H*-imidazol-4-yl)ethyl)-N²-(3-methylphenyl)-2,4-
pyrimidinediamine,
N-(3-((5-bromo-4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)phenyl)methanesulfonamide,
4-((4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-5-methyl-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-5-(trifluoromethyl)-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((4-((3-aminopropyl)amino)-5-bromo-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((5-bromo-4-((3-(1*H*-imidazol-1-yl)propyl)amino)-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((5-bromo-4-((2-(1-pyrrolidinyl)ethyl)amino)-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((4-((4-aminobutyl)amino)-5-bromo-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-pyrimidinyl)amino)-
butanoic acid,
4-((4-((3-((aminocarbonyl)amino)propyl)amino)-5-bromo-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-pyrimidinyl)amino)-
butanoic acid ethyl ester,
4-((5-bromo-4-((4-(methylamino)butyl)amino)-2-pyrimidinyl)amino)-

benzenesulfonamide,
4-((5-bromo-4-((2-(1*H*-imidazol-1-yl)ethyl)amino)-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((5-ethyl-4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((4-((2-(1*H*-imidazol-4-yl)ethyl)amino)-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((5-bromo-4-((2-(2-pyridinyl)ethyl)amino)-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-((5-bromo-4-((2-(1*H*-indol-3-yl)ethyl)amino)-2-pyrimidinyl)amino)-
benzenesulfonamide,
2-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-pyrimidinyl)amino)-
acetamide,
N-(2-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-
pyrimidinyl)amino)ethyl)-acetamide,
3-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-pyrimidinyl)amino)-
propanamide,
N-(4-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-
pyrimidinyl)amino)butyl)-acetamide,
N-(3-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-
pyrimidinyl)amino)propyl)-acetamide,
N-(3-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-
pyrimidinyl)amino)propyl)-2-furancarboxamide,
N-(3-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-
pyrimidinyl)amino)propyl)-1*H*-pyrrole-2-carboxamide,
4-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-pyrimidinyl)amino)-
butanamide,
N-(3-((2-((4-(aminosulfonyl)phenyl)amino)-5-bromo-4-
pyrimidinyl)amino)propyl)-2-thiophenecarboxamide,
4-((4-(4-(aminomethyl)-1-piperidinyl)-5-bromo-2-pyrimidinyl)amino)-
benzenesulfonamide,
4-(5-Brom-4-prop-2-ynylamino-pyrimidin-2-ylamino)-phenyl]-N,N-
dimethylaminosulfonylamin,

1-Methyl-1H-imidazol-4-sulfonsäure [4-(5-brom-4-prop-2-ynylamino-

pyrimidin-2-ylamino)-phenyl]-amid,

3-(5-Bromo-4-prop-2-ynyloxy-pyrimidine-2-ylamino)-benzoic acid ethyl ester,

4-(5-Bromo-4-prop-2-ynyloxy-pyrimidine-2-ylamino)-benzoic acid ethyl ester,

2-(5-Bromo-4-prop-2-ynyloxy-pyrimidine-2-ylamino)-benzoic acid ethyl ester,

2-(5-Bromo-4-prop-2-ynyloxy-pyrimidine-2-ylamino)-phenol,

4-(5-Bromo-4-prop-2-ynyloxy-pyrimidine-2-ylamino)-benzoic acid methyl

ester,

3-(5-Nitro-4-prop-2-ynylamino-pyrimidine-2-ylamino)-phenol,

2-(5-Nitro-4-prop-2-ynylamino-pyrimidine-2-ylamino)-benzoic acid ethyl ester,

3-(5-Nitro-4-prop-2-ynylamino-pyrimidine-2-ylamino)-benzoic acid ethyl ester,

4-(5-Nitro-4-prop-2-ynylamino-pyrimidine-2-ylamino)-benzoic acid ethyl ester,

4-(5-Nitro-4-prop-2-ynylamino-pyrimidine-2-ylamino)-phenol,

4-(5-Nitro-4-prop-2-ynylamino-pyrimidine-2-ylamino)-[2-

Methyl 3-[[5-bromo-4-(prop-2-ynyloxy)pyrimidin-2-yl]amino]-5-[2-

hydroxyethyl]amino]benzoate,

Methyl 3-amino-5-[[5-bromo-4-(prop-2-ynyloxy)pyrimidin-2-yl]amino]benzoate

or

3-[Bis-(2-hydroxy-ethyl)-amino]-5-(5-bromo-4-prop-2-ynyloxy-pyrimidine-2-

ylamino)-benzoic acid methyl ester.

20

12. Pharmaceutical composition comprising as an active ingredient at least one compound of general formula (I) according to any one of claims 1 to 10 or compounds according to claim 11 in an therapeutically effective amount for the prevention or treatment of a disorder caused by, associated with or accompanied by disruptions of cell proliferation and/or angiogenesis together with an pharmaceutically acceptable carrier, diluent or excipient.

25

13. Use of a compound of general formula (I) according to claim 1 or 10 or compounds according to claim 11 for the manufacture of a medicament for the prevention or treatment of a disorder caused by, associated with or accompanied by any abnormal kinase activity selected from Chk, Akt, Pdk, Cdk and/or VEGF-R activity as well as combinations thereof.

30

14. The use of a compound of general formula (I) according to any one of claims 1 to 5, wherein the kinase is selected from PDK1, Akt1, Akt2 and/or Akt3.

5 15. The use of a compound of general formula (I) according to claim 13, wherein the kinase is selected from PDK1, Akt1, Akt2 and/or Akt3 in combination with VEGF-R.

10 16. The use of a compound of general formula (I) according to any one of claims 1 and 6 to 8, wherein the kinase is selected from Chk1 and/or Chk2.

15 17. The use according to any one of claims 13 to 16, wherein the disorder is selected from cancer, angiofibroma, arthritis, eye diseases, auto-immune diseases, chemotherapy agent-induced alopecia and mucositis, Crohn-disease, endometriosis, fibrotic diseases, hemangioma, cardiovaskular diseases, infectious diseases, nephrological diseases, chronic und acute neurodegenerative diseases, like disruptions of nerval tissue, viral infections, to prevent restenosis of vessels, for preventing the formation of scars, preventing or treating keratoma seniles and contact dermatitis.

20 18. The use according to claim 17, wherein cancer stands for solide tumours, tumour- or metastasis growth, Kaposi Sarkom, Hodgkin's disease and/or leukemia, arthritis stands for rheumatoid arthritis, eyes diseases stand for diabetic retinopathy, neovaskular glaukoma, auto-immune diseases stand for psoriasis, alopecia and/or multiple sklerosis, fibrotic diseases stand for cirrhosis of the liver, mesangial cell proliferative diseases, arteriosklerosis, infectiouse diseases stand for diseases that are caused by unicellular parasites, cardiovascular diseases stand for stenosis, like stent induced restenosis, arteriosklerosis and restenosis, nephrological diseases stand for glomerulonephritis, diabetic nephropaty, malignant nephrosklerosis, thrombic mikroangiopathis syndrome, transplant

rejections and glomerulopathy.

chronic neurodegenerative diseases stand for Huntington's disease,
amyotrophic lateralsklerosis, Parkinsons disease, AIDS, dementia und
Alzheimer's disease,

5 acute neurodegenerative diseases stand for ischemias of the brain and
neurotraumas, and
viral infections stand for cytomegalic infections, herpes, hepatitis B or C and
HIV.

10 19. A method of treating a mammal having a disease-state alleviated by the
inhibition of Akt, Pdk, chk and/or VEGF-R activity, wherein the method
comprises administering to a mammal a therapeutically effective amount of a
compound of general formula (I) according to any one of claims 1 to 10 or
the compounds of claim 11.

15 20. The method of claim 19 wherein the mammal is a human.

21. The method of claim 19 or 20, wherein the disease-state is cancer,
angiofibroma, arthritis, eye diseases, auto-immune diseases, chemotherapy
agent-induced alopecia and mucositis, Crohn's disease, endometriosis,
20 fibrotic diseases, hemangioma, cardiovascular diseases, infectious diseases,
nephrological diseases, chronic und acute neurodegenerative diseases, like
disruptions of nerval tissue, viral infections, prevention of restenosis of
vessels, prevention the formation of scars, prevention or treatment of
25 keratoma seniles or contact dermatitis.

22. The method of claim 21, wherein
cancer stands for solide tumours, tumour- or metastasis growth, Kaposi
Sarkom, Hodgkin's disease and/or leukemia,
30 arthritis stands for rheumatoid arthritis,
eyes diseases stand for diabetic retinopathy, neovaskular glaukoma,
auto-immune diseases stand for psoriasis, alopecia and/or multiple sklerosis,
fibrotic diseases stand for cirrhosis of the liver, mesangial cell proliferative

diseases, arteriosklerosis,

infectious diseases stand for diseases that are caused by unicellular

parasites,

cardiovascular diseases stand for stenosis, like stent induced restenosis,

arteriosklerosis and restenosis,

5 nephrological diseases stand for glomerulonephritis, diabetic nephropathy,

malignant nephrosklerosis, thrombotic mikroangiopathis syndrome, transplant

rejections and glomerulopathy,

chronic neurodegenerative diseases stand for Huntington's disease,

10 amyotrophic lateralsklerosis, Parkinsons disease, AIDS, dementia und

Alzheimer's disease,

acute neurodegenerative diseases stand for ischemias of the brain and

neurotraumas, and

viral infections stand for cytomegalic infections, herpes, hepatitis B or C and

15 HIV.